

Bureau of Laboratories Equipment Wish List  
Requested by CD Bureau  
3-28-05

Priority	Laboratory Location	Item	Estimated Cost	Justification
1	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
2	Drug analysis Lab- Jamaica Plain	Balance, top loading	\$ 779.00	Replacement of unrepairable equipment needed for testing
3	Drug analysis Lab- Jamaica Plain	Balance, top loading, high capacity	\$ 1,400.00	Replacement of unrepairable equipment needed for testing
4	Drug analysis Lab- Amherst	Balance, analytical	\$ 2,300.00	Replacement of unrepairable equipment needed for testing
5	Drug analysis Lab- Jamaica Plain	microscope, stereo	\$ 1,500.00	Replacement of aging equipment (>20 yrs) needed for testing
6	Drug analysis Lab- Jamaica Plain	Light for microscope	\$ 207.00	Replacement of unrepairable equipment needed for testing
7	Drug analysis Lab- Amherst	Refrigerator explosion proof / flammable storage	\$ 1,150.00	Replacement of unrepairable equipment needed for solvent storage
8	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
9	Drug analysis Lab- Amherst	Storage safe	\$ 1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen
10	Molecular Laboratory	QA/QC Instrumentation for PCR temperature validation	\$ 6,500.00	New item to perform mandated QA procedures
11	Infectious Disease Virology Lab Division- Viral Isolation/ Serology	Filtering pump system	\$ 800.00	Replacement of unrepairable equipment needed for test reagent preparation
12	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot autoblotter	\$ 1,500.00	New equipment to automate Lyme Disease Western Blot testing
13	Infectious Disease Virology Lab Division- Viral Isolation	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
14	Infectious Disease Virology Lab Division- Viral Serology	pH meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
15	Infectious Disease Virology Lab Division- Viral Serology	Conductivity meter	\$ 800.00	Replacement of aging equipment needed for preparing testing reagents
16	Infectious Disease Virology Lab Division- Viral Serology	Immunoblot Gel Casting equipment	\$ 3,000.00	Replacement of unrepairable equipment needed for immunoblot testing
17	Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
18	Drug analysis Lab- Amherst	Gas chromatograph	\$ 35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing
19	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	BioRad chef mapper, complete system	\$ 40,000.00	Replacement of unrepairable equipment needed for testing
20	Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab	2- BioRad chef mapper, electrophoresis chamber	\$ 2,500.00	Replacement of unrepairable equipment needed for testing
21	Molecular Laboratory	10- Personal Air Purifying Respirators	\$ 11,157.00	New item for working with viral specimens in a BSL-3 laboratory
22	Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
23	Drug analysis Lab- Jamaica Plain	InfraRed Spectrophotometer with microscope	\$ 42,000.00	Replacement of aging equipment (>20 yrs) needed for testing
24	Drug analysis Lab- Amherst	15- Storage cabinets/units	\$ 1,335.00	New item for storing equipment and files. Replacement of aging equipment no longer supported by manufacturer needed for testing
25	Drug analysis Lab- Amherst	Gas chromatograph / Mass spectrometer	\$ 74,672.00	
26	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
27	Infectious Disease Virology Lab Division- Viral Serology	Computer printer	\$ 900.00	Replacement of aging equipment needed for testing
			\$ 311,173.00	

**Bureau of Laboratories Priority Equipment Needs**  
(as 4-13-2006)

Laboratory Location	Item	Estimated Cost	Justification	Use
Diagnostic Microbiology Lab Division - STD Lab	Biosafety Cabinet	\$10,000.00	Replacement for aging equipment (>20 years) needed for testing	Enclosure cabinet used while performing testing
Infectious Disease Virology Lab Division - HIV	Plate Washer	\$5,000.00	New item for addition of new EIA assay.	Prepares plates for testing
Infectious Disease Virology Lab Division - Viral Isolation/Serology	pH meter	\$800.00	Replacement of aging equipment needed for preparing testing reagents	measures acidity/alkalinity of test reagents
Infectious Disease Virology Lab Division - Viral Isolation/Serology	conductivity meter	\$800.00	Replacement of aging equipment needed for preparing testing reagents	Measures chemical properties of test reagents
Infectious Disease Virology Lab Division - Molecular lab	incubator	\$900.00	New item to perform new tick-borne testing.	Keeps specimens at proper temperature
Infectious Disease Virology Lab Division - Molecular lab	Breather Easy PAPR System X 11	\$22,000.00	Personal Protective Breathing apparatus for working with infectious materials in the extraction operations	Personal Protective Equipment
Infectious Disease Virology Lab Division - Rabies	Refrigerator explosion proof / flammable storage	\$5,700.00		
Infectious Disease Virology Lab Division - Viral Isolation/Serology	Freezer Chart Recorders	\$24,000.00	New item to record temperature data for Liquid Nitrogen System	Continuously records temperature
Drug analysis Lab- Amherst	Refrigerator explosion proof / flammable storage	\$1,150.00	Replacement of unrepairable equipment needed for solvent storage	For storage of flammable materials
Drug analysis Lab- Amherst	Storage safe	\$1,361.00	Replacement of unrepairable equipment needed for evidence/ specimen	For secure storage of materials
Drug analysis Lab- Jamaica Plain	Gas chromatograph	\$35,336.00	Replacement of aging equipment no longer supported by manufacturer needed for testing	Analyses chemical properties of materials
Drug analysis Lab- Amherst	InfraRed Spectrophotometer with microscope	\$42,000.00	Replacement of aging equipment (>20 yrs) needed for testing	Chemical properties of materials
Drug analysis Lab- Amherst	Gas chromatograph / Mass spectrometer	\$85,000.00	Replacement of aging equipment no longer supported by manufacturer needed for testing	Analyses chemical properties of materials
Drug analysis Lab- Jamaica Plain	Vortex-Genie mixer (x2)	\$1,400.00		To prepare specimens for analysis
Molecular Lab	1 ABI 7500 for the Molecular Lab	\$60,000.00	Laboratory Equipment	Molecular testing of specimens
Molecular Lab	3M GVP powered air purifying respirator assembly and supplies (11 units)	\$22,000	Air purifying respirator	Personal Protective Equipment
Molecular Lab	Security locks	\$10,000		To provide secure access to the laboratory
Molecular Lab	Freezer Chart Recorders (1 unit)	\$3,892	Accessory for liquid nitrogen systems to record temperature data.	Continuously records temperature
Media Preparation Unit and Kit Room	Laboratory refrigerator x1, and laboratory freezer x1	\$9,861.00		Storage of Laboratory supplies. Replace equipment >20 years.
<b>Original Equipment List Sub Total</b>		<b>\$341,200.00</b>		

Function	Pandemic Relation
Safe handling of biological specimens	Specimen handling preparation, essential laboratory function for continuity of operations plan
Removes reagents	Specimen testing, essential laboratory function for continuity of operations plan
Assures testing reagents are properly made	Specimen testing, essential laboratory function for continuity of operations plan
Assures testing reagents are properly made	Test reagent preparation, essential laboratory function for continuity of operations plan
Used during specimen testing	Specimen testing, essential laboratory function for continuity of operations plan
Respiratory protection of laboratory staff	Laboratory Safety, essential laboratory function for continuity of operations plan
For required monitoring of refrigeration equipment	Specimen storage, essential laboratory function for continuity of operations plan
Used for specimen testing reagents	Specimen storage, essential laboratory function for continuity of operations plan
For storage of specimens, reagents and standards	Specimen storage, essential laboratory function for continuity of operations plan
Testing used to identify specimens	Specimen testing, essential laboratory function for continuity of operations plan
Testing used to identify specimens	Specimen testing, essential laboratory function for continuity of operations plan
Testing used to identify specimens	Specimen testing, essential laboratory function for continuity of operations plan
Used to uniformly mix samples for testing	Specimen testing, essential laboratory function for continuity of operations plan
Used to perform PCR	Specimen testing, essential laboratory function for continuity of operations plan
Respiratory protection of laboratory staff	Laboratory Safety, essential laboratory function for continuity of operations plan
Provide a secure work environment for staff	Laboratory Safety, essential laboratory function for continuity of operations plan
For required monitoring of refrigeration equipment	Specimen storage, essential laboratory function for continuity of operations plan
Keep media preparation supplies and specimen kits at appropriate temperatures	Store microbiology media supplies and specimen kit components which are used for laboratory testing and is essential for continuity of operations